

## Dr. Duke's Phytochemical and Ethnobotanical Databases

### List of Plants for ELEMOL

Plant	Part	Low PPM	High PPM	StdDev	Reference
Angelica archangelica	Root	0.0	18.0		--
Angelica archangelica	Root Essent. Oil				--
Apium graveolens	Seed				Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
Atractylodes lancea	Rhizome				--
Boswellia serrata	Resin, Exudate, Sap		2080.0		Sabinsa: A series of well documented proprietary PR booklets, e.g. Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
Boswellia serrata	Essential Oil		12000.0	-1.0	--
Canarium indicum	Essential Oil	15000.0	37500.0	1.0	--
Citrus sinensis	Root Bark		28200.0		Jim Duke's personal files.
Commiphora myrrha	Essential Oil				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Coriandrum sativum	Fruit				Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Coriandrum sativum	Seed Essent. Oil		4130.0		--
Cymbopogon nardus	Plant	51.0	204.0	0.8482703417501277	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cymbopogon winterianus	Plant	40.0	420.0	2.4278082194917445	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Elsholtzia blanda	Shoot		0.4	-1.4027794174161827	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of Elsholtzia blanda Benth. (Labiatae). J. Ess. Oils Res. 4: 121-124
Ginkgo biloba	Heart Wood				Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Ginkgo biloba	Wood				Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
Glechoma hederacea	Plant	1.0	3.0	-0.6215774055927659	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Hypericum perforatum	Plant	0.25	4.5	-0.6106083925528936	--
Hyssopus officinalis	Leaf	0.4	608.0	-0.3001877753948351	Flavour and Fragrance Journal, 6: 72.
Hyssopus officinalis	Flower	21.0	215.0		Flavour and Fragrance Journal, 6: 72.
Juniperus virginiana	Leaf				--
Juniperus sabina	Plant				--
Lycopus uniflorus	Plant		1.0	-0.6362027563125957	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Magnolia denudata	Leaf				--
Magnolia denudata	Flower				--
Magnolia denudata	Bulb				--
Magnolia denudata	Twig				--
Magnolia denudata	Bark				--
Mentha aquatica	Shoot		220.0	0.8989667349967224	Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot		170.0	0.374889742188684	Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Shoot		70.0	-0.6732642434273933	Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Mentha spicata	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha aquatica	Shoot		275.0	1.4754514270855648	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogekagaku Kaishi 67(10): 1417-1419.
Mentha aquatica	Leaf	660.0	1870.0	1.3469294965542162	--
Mentha aquatica	Shoot		70.0	-0.6732642434273933	Umemoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogekagaku Kaishi 67(10): 1417-1419.
Myrrhis odorata	Leaf Essent. Oil		22000.0	1.0	--
Nardostachys jatamansi	Root				--
Ocimum basilicum	Essential Oil				--
Origanum vulgare	Plant		0.0	-0.6435154316725106	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant		1.5	-0.6325464186326382	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Panax quinquefolius	Root Essent. Oil	2959.0	14637.0		--
Piper nigrum	Fruit Essent. Oil		1100.0		--
Pycnanthemum loomisii	Shoot				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Rosmarinus officinalis	Plant	7.0	32.0	-0.40950982015523396	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Sideritis germanicolpitana	Plant	80.0	213.0	0.9140844199893617	J. Essential Oil, 4: 533.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Tagetes lucida	Shoot				Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of Tagetes lucida Cav. ssp. lucida essential oil. Flavor & Fragrance, 12(1): 47-52.
Thymus mastichina	Plant		1.0	-0.6362027563125957	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Valeriana officinalis	Root Essent. Oil				--
Valeriana officinalis	Root				--
Valeriana officinalis	Leaf Essent. Oil		1400.0	-1.0	--
Valeriana officinalis	Leaf	3.0	36.0	-1.0467417211593815	Father Nature's Farmacy: The aggregate of all these three-letter citations.
Valeriana officinalis	Essential Oil				--
Vetiveria zizanioides	Root				--
Zingiber officinale	Rhizome	3.0	190.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Zingiber officinale	Rhizome Essent. Oil		3800.0		--